SAMSUNG

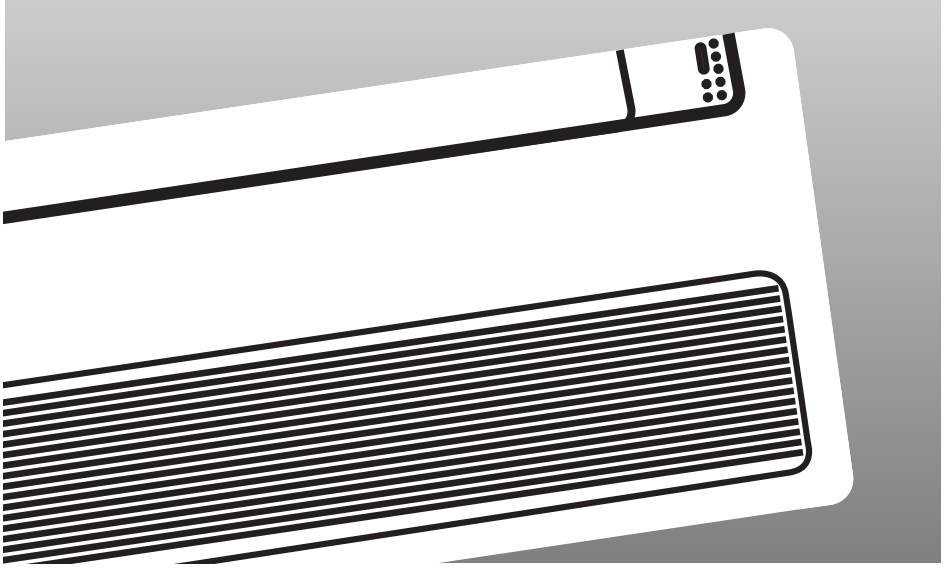
USER'S MANUAL

FH052EAV1
FH070EAV1

ENGLISH
ESPAÑOL
FRANÇAIS
ITALIANO
PORTUGUÊS
DEUTSCH
ΕΛΛΗΝΙΚΑ

System Air Conditioner
(Cooling and Heating)

INVERTER



ⒺⓈⒻⒾⓅⒹⒼ DB98-29263A(1)

Register your product at www.samsung.com/global/register

Safety Precautions

The following safety precautions must be taken when using your air conditioner.

⚠ WARNING

Risk of electric shock. • Can cause injury or death. • Disconnect all remote electric power supplies before servicing, installing or cleaning. • This must be done by the manufacturer or its service agent or a similar qualified person in order to avoid a hazard.

During operation

- Users of this product are cautioned not to attempt repair of this product at their own discretion. Instead, they are requested to directly contact a designated service center or the outlet at which the product was purchased.
- Never spill any kind of liquid into the unit. Should this happen, unplug or main switch off the unit and contact an authorized service center.
- Do not insert anything between the air outlet blades because the inner fan may be damaged and could cause injury. Keep children away from the unit.
- Do not place any obstacles in front of the unit.
- Do not spray liquid of any kind into the indoor unit. Should this happen, switch off the breaker used for your air conditioner and contact your installation specialist.
- Make sure that the unit is correctly ventilated at all times:
  Do not place clothing or other materials over it.
- If the wireless remote control will not be used for a long time, remove the batteries. (If applicable)
- When using a wireless remote control, the distance should not be more than 7m from the air conditioner. (If applicable)

Disposing of the unit

- Before throwing out the device, it is necessary to pull back the battery cells and get rid of them safely for recycling reasons.
- When you need to dispose of the unit, consult your dealer. If pipes are removed incorrectly, refrigerant may blow out and come into contact with your skin, causing injury. Releasing refrigerant into the atmosphere also damages the environments.
- Please recycle or dispose of the packaging material for this product in an environmentally responsible manner.

Others

- Never store or ship the air conditioner upside down or sideways to avoid damage to the compressor.
- The appliance is not intended for use by young children or infirm persons without supervision: Young children should be supervised to ensure that they do not play with the appliance.
- Max current is measured according to IEC standard for safety and current is measured according to ISO standard for energy efficiency.
- R410a
  “Do not vent R410a into atmosphere: R410a is a fluorinated greenhouse gas, covered by Kyoto Protocol, with a Global Warming Potential (GWP)= 1975”

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Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

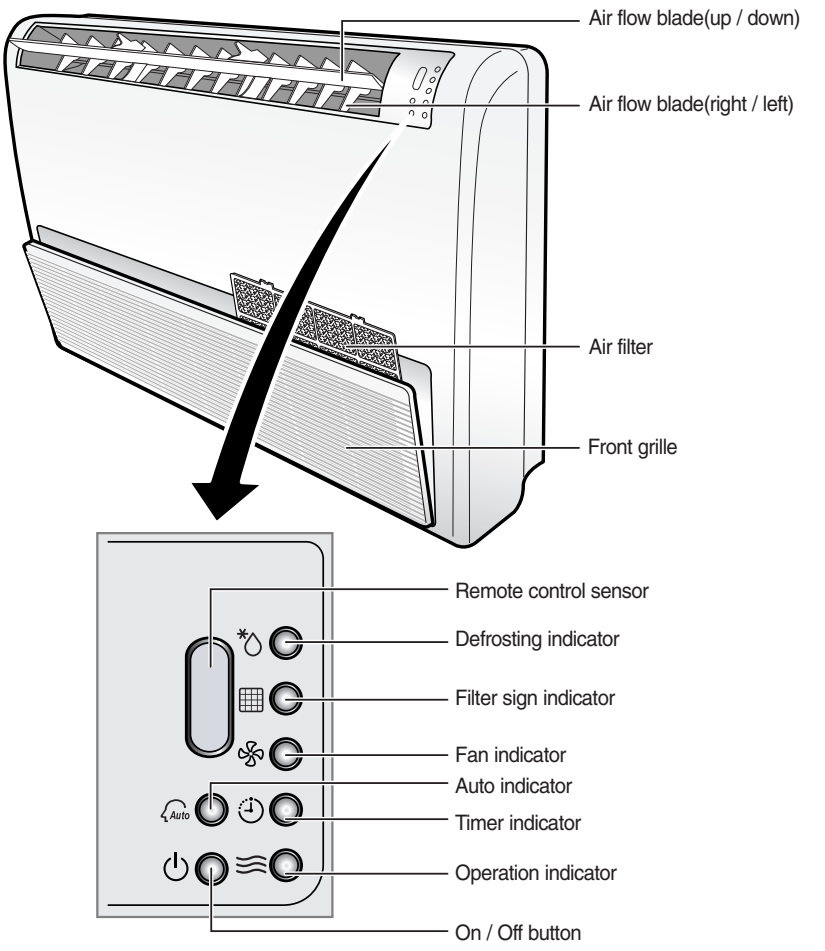
Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract.
This product should not be mixed with other commercial wastes for disposal.

View of the Unit

The figures are shown in this instruction may differ from yours depending on the model.

Indoor Unit



Periodical Checks

Type	Description	Monthly	Every 4 months	Once a year
Indoor unit	Clean the air filter	● (1)		
	Clean the condensate drain pan (2)			●
	Thoroughly clean the heat exchanger (2)			●
	Clean the condensate drain pipe (2)		●	
	Replace the remote control batteries			●
Outdoor unit	Clean the heat exchanger on the outside of the unit (2)		●	
	Clean the heat exchanger on the inside of the unit (2)			●
	Clean the electric components with jets of air (2)			●
	Verify that all the electric components are firmly tightened (2)			●
	Clean the fan (2)			●
	Verify that all the fan assembly is firmly tightened (2)			●
	Clean the condensate drain pan (2)			●

❊ ***The checks and maintenance operations described are essential to guarantee the efficiency of the air conditioner.***
The frequency of these operations varies according to the characteristics of the area, the amount of dust, etc.

(1) The described operations should be performed more frequently if the area of installation is very dusty.
(2) These operations must always be performed by qualified personnel. For more detailed information, see the Installation Manual.

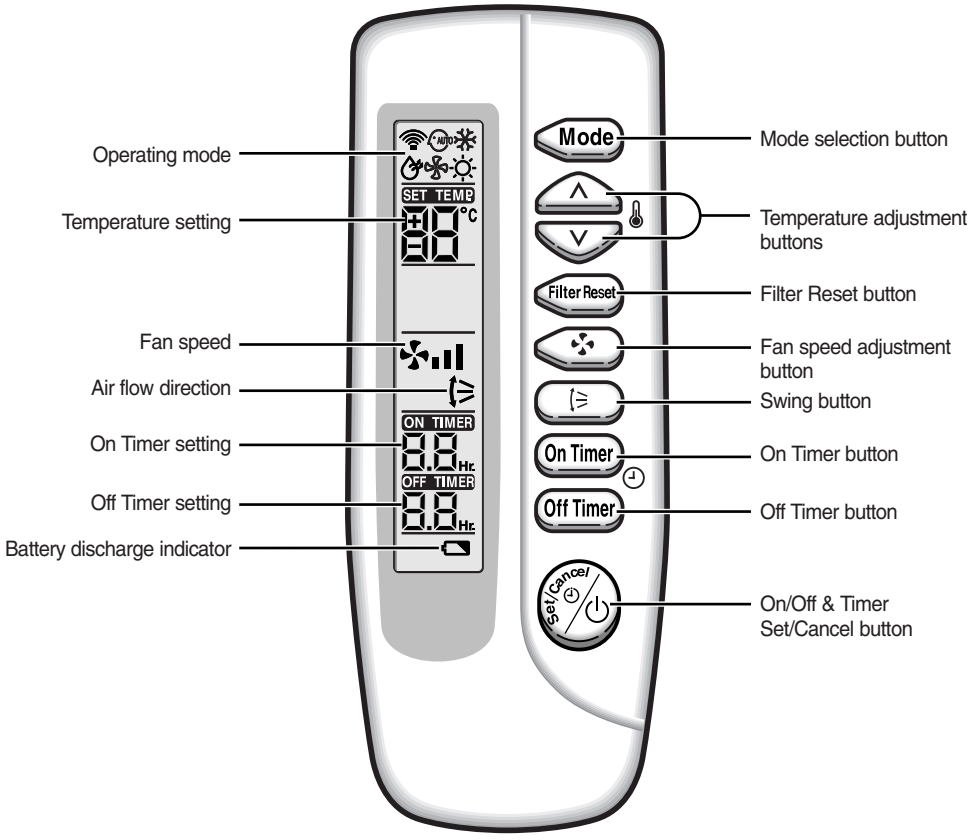
Protections enabled by the Unit control system

Type of protection	Description	Operation	When it enables
Protection against cold air	The internal fan is off	Heating on heat pump	During operation
Defrost cycle	The internal fan is off	Heating on heat pump	During operation
Anti-frost protection of internal battery	The compressor is off	Cooling During operation	
Delayed start of compressor	The start of the compressor is delayed.	Cooling or heating on heat pump	At start-up or during the selection of the operating mode

CAUTION ***If the air conditioner is operating in heat pump mode, it performs several defrost cycles in order to remove the frost that may have deposited on the outdoor unit (at low temperatures).***
In this case, the internal fan is switched off automatically and restarted only after the defrost cycle is completed.

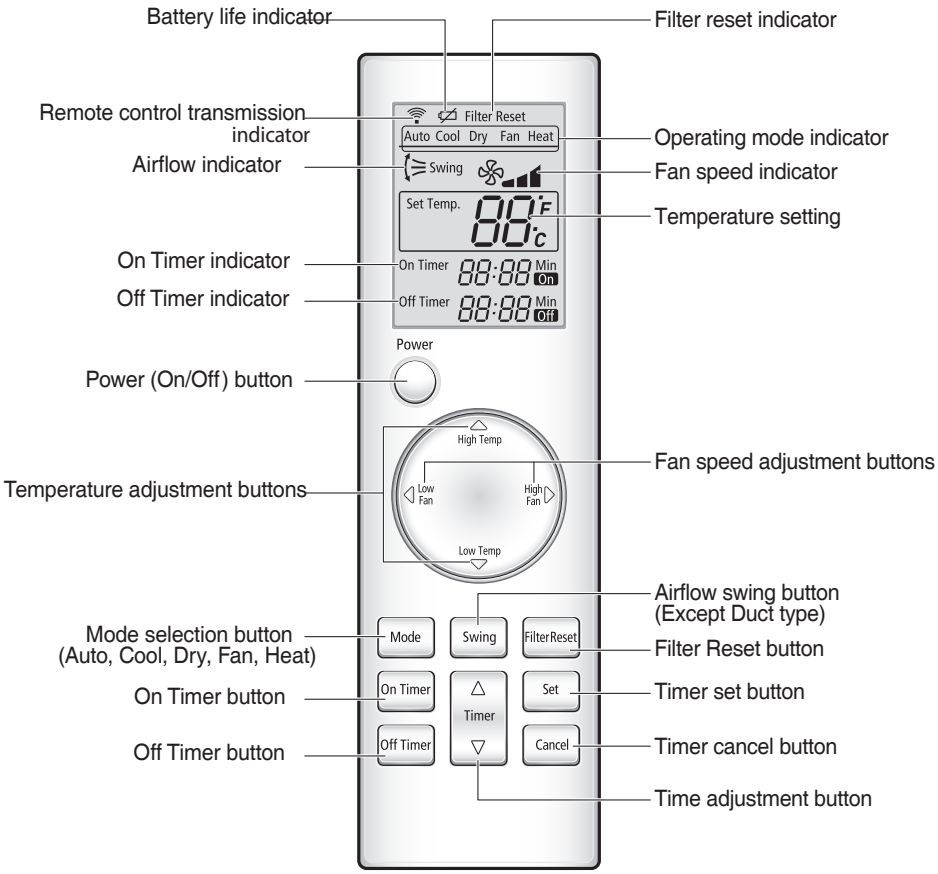
Wireless Remote Controller - Buttons and Display

To use the wireless remote controller, refer to an appropriate manual.



Note After cleaning the air filter, press the Filter Reset button.

Heat Pump Models (MR-BH01)



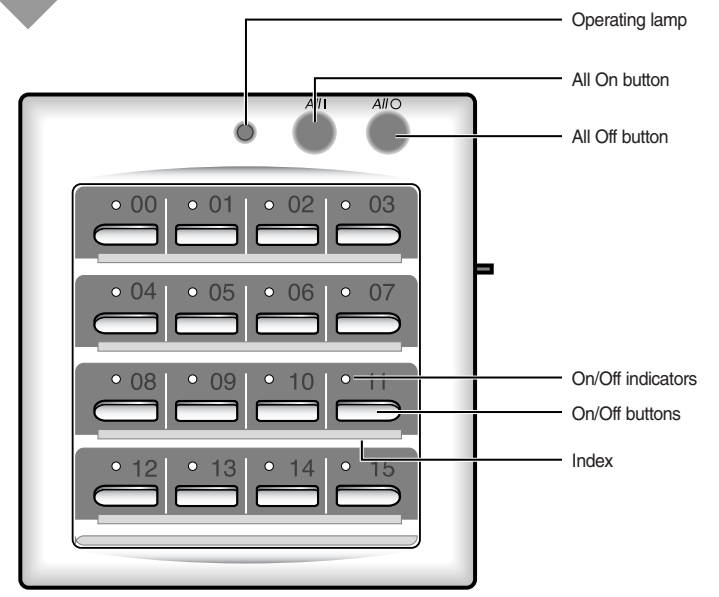
Note

- Press Filter Reset button after cleaning the air filter. The remote control will display the filter sign to alert the user to clean the filter and turn off the display when Filter Reset button is pressed.
- Duct type air conditioner does not have function of adjusting air flow direction. Therefore, the function is not operated even if you press the swing button.

Centralized Controller

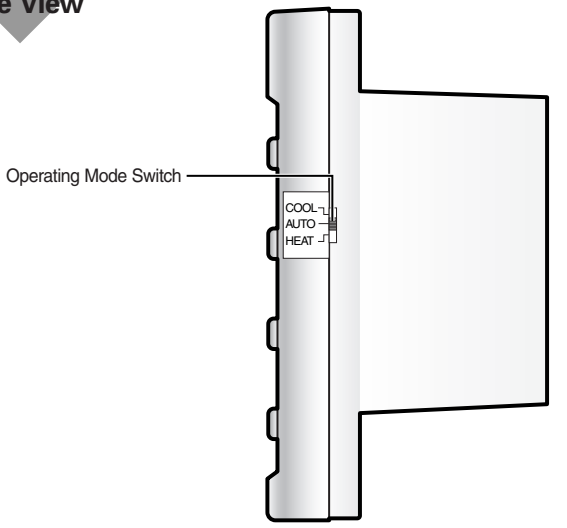
The centralized controller is an optional accessory and it is installed on the wall.
To use the centralized controller, refer to an appropriate manual.

Front View



Note The operating lamp comes on even when only one air conditioner connected to the centralized controller is operating.

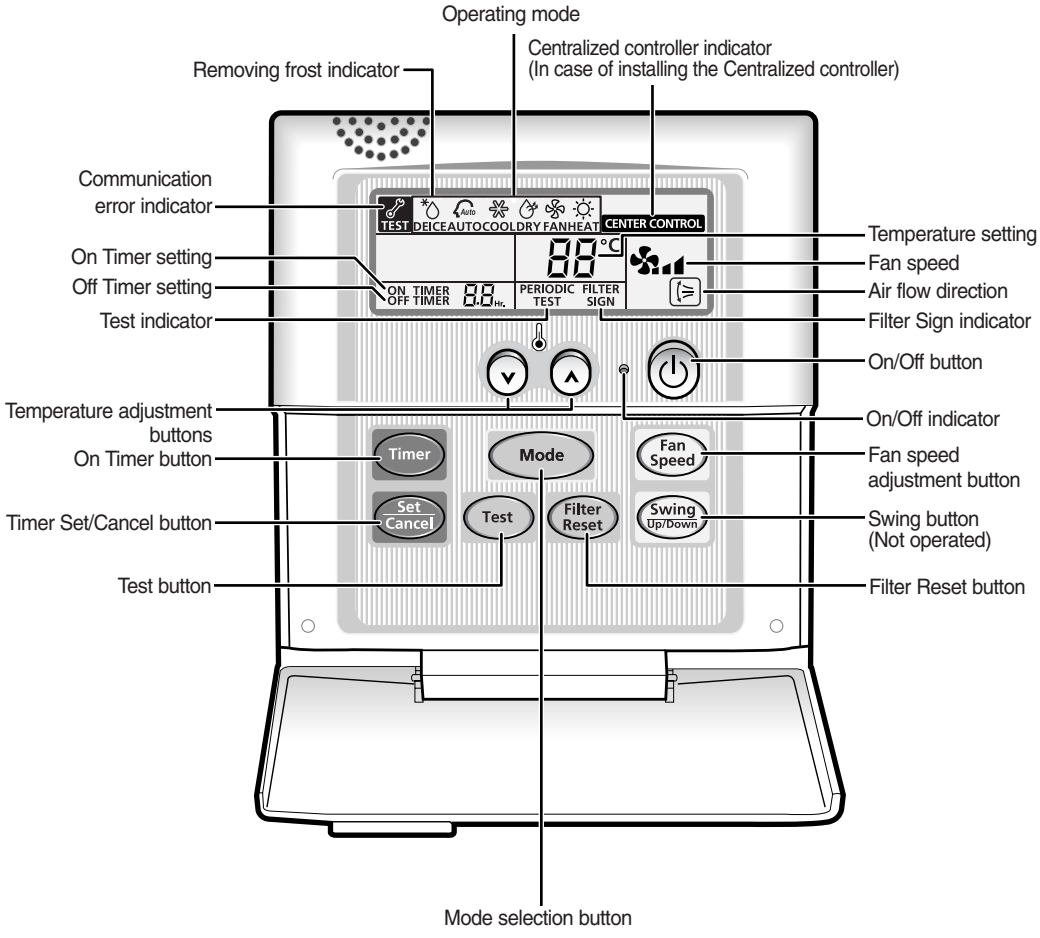
Side View



Note Choose the appropriate operating mode with the Operating Mode Switch that enables the user to choose between the Cool/Auto/Heat mode.

Wired Remote Controller - Buttons and Display

The wired remote controller is an optional accessory and it is installed on the wall.
To use the wired remote controller, refer to an appropriate manual.

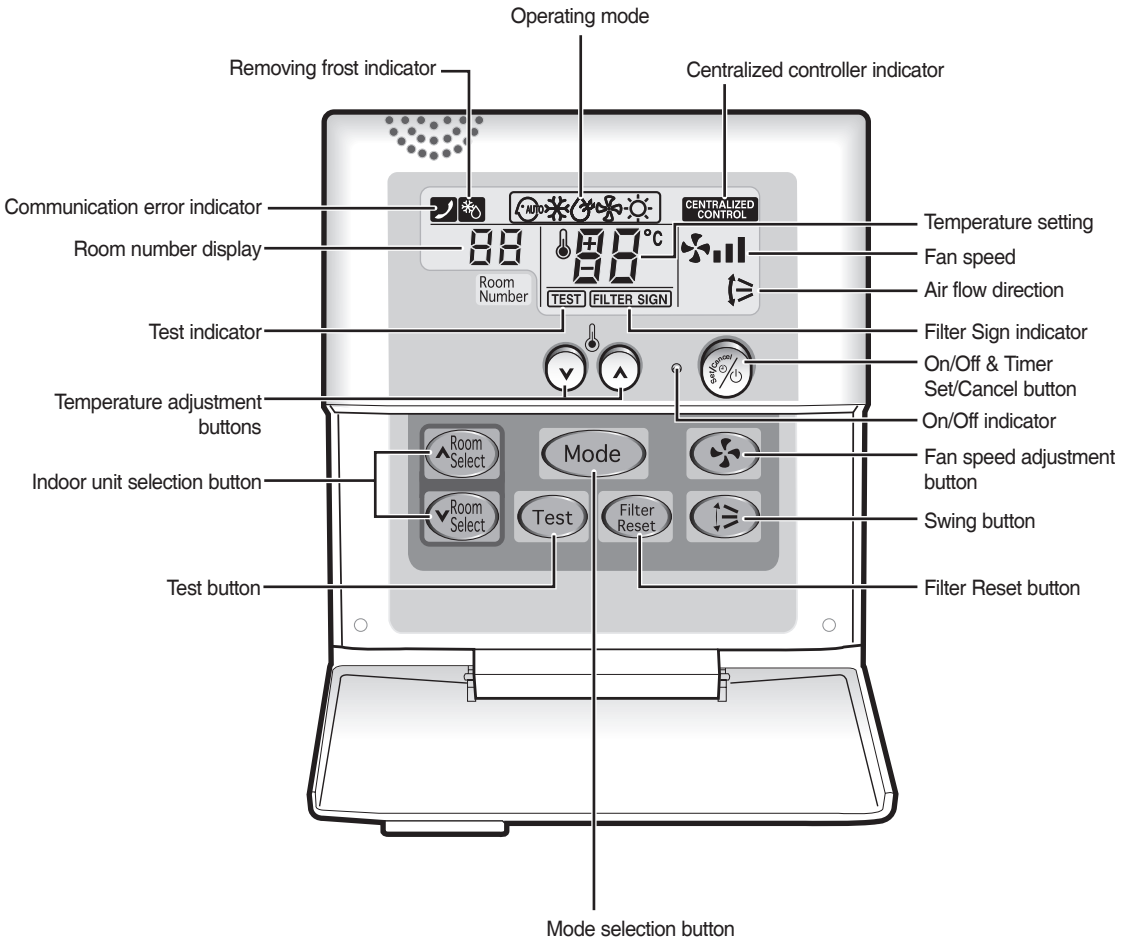


Note

- The (Test) button is for your installation specialist. You must NOT press it.
- After cleaning the air filter, press the (Filter Reset) button. Then the wired remote controller will display the FILTER SIGN indicator when the time to clean the air filter; refer to page 13.

Function Controller

The function controller is an optional accessory and it is installed on the wall.
The function controller is an additional controller which is used with the centralized controller.
To use the function controller, refer to an appropriate manual.



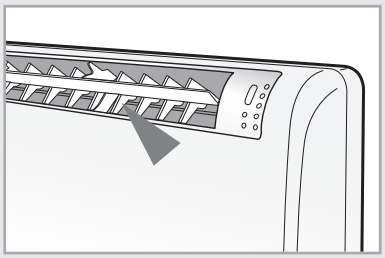
Note

- The (Test) button is for your installation specialist. You must NOT press it.
- After cleaning the air filter, press the (Filter Reset) button. Then the wired remote controller will display the FILTER SIGN indicator when the time to clean the air filter.

Adjusting the Air Flow Direction

There are two sets of inner air flow blades. Just as the outer air flow blade can be adjusted vertically, the inner blades can be adjusted horizontally.

Adjust each set of inner blades to the required position, by pushing or pulling them sideways.



Operating Recommendations

Here are a few recommendations that you should follow when operating your air conditioner.

Topic	Recommendation
Heating performances	The heat pump function of the air conditioner absorbs heat from outside air and brings it indoors. As the temperature of the outside air drops, the heating performance of air conditioner will decrease. If you find that the room is not warm enough, using an additional heating appliance is recommended.
Frost	When outside temperature is low but humidity is high, frost may form on the outdoor unit at HEAT mode. If this happens: ◆ The heating operation stops. ◆ The defrost mode will be triggered automatically for 3 to 14 minutes. No intervention is required ; after about 7 minutes, the air conditioner operates again normally.
High indoor and outdoor temperatures	If both indoor and outdoor temperatures are high and the air conditioner is running at HEAT mode, the outdoor unit's fan and compressor may stop at times. This is normal ; simply wait until the air conditioner switches on again.
Power failure	If a power failure occurs while the air conditioner is operating, the unit will be switched off. When the power returns, the air conditioner starts up again automatically.
Cooling operation	The indoor unit may not get the selected fan speed such as Medium and Low under cooling operation at very low outdoor temperatures for protecting the indoor unit from ice or frost. During Low fan speed operation, cooling performance will be reduced. If the room does not cool down when using Low fan speed operation, please adjust the indoor unit's fan speed.

Temperature and Humidity Ranges

The following table indicates the temperature and humidity ranges, within which the air conditioner can be used.

MODE	OPERATING CONDITIONS	IF OUT OF CONDITIONS
COOLING	Indoor temp: 18℃~32℃	- A safety device will stop continuously the system functioning; - Condensation may occur on the indoor unit with risk to have either water blow off or drops on the floor;
	Outdoor temp: -15℃~43℃	
HEATING	Indoor temp: below 27℃	- A safety device will stop continuously the system functioning;
	Outdoor temp: -20℃~24℃	
DEHUMIDIFYING	Indoor temp: 18℃~32℃	- A safety device will stop continuously the system functioning; - Condensation may occur on the indoor unit with risk to have either water blow off or drops on the floor;
	Indoor humidity: below 80%	
	Outdoor temp: -15℃~43℃	
POWER SUPPLY	Single phase rated voltage minimum and maximum limit	220-240V~, 50Hz 198V - 264V

- Any damage occurs out of condition specified cannot be covered by product warranty. If the system works continuously outside of conditions, its performance and reliability will be compromised.
- If the outdoor temperature is as low as 0°C, the heating capacity may drop depending on the operating condition.

Cleaning Your Air Conditioner

To get the best possible use out of your air conditioner, you must to clean it to remove the dust that accumulates on the air filters.

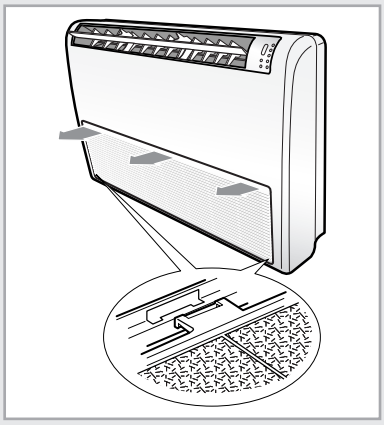
CAUTION **Before cleaning your air conditioner, ensure that you have switched off the breaker used for the unit.**

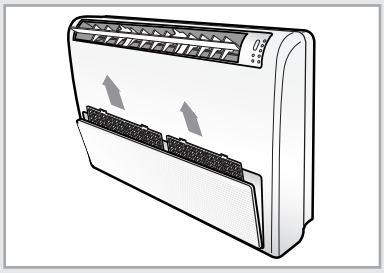
1 Open the front grille by pushing on both sides and center.

2 Pull the air filters in upward direction to remove them.
Remove all dust from the air filters by vacuum cleaner, brush or by washing them with a detergent and warm water below 40°C.
After washing, allow them to dry thoroughly in an area protected from sunlight.

3 Insert the air filters to the front grille.

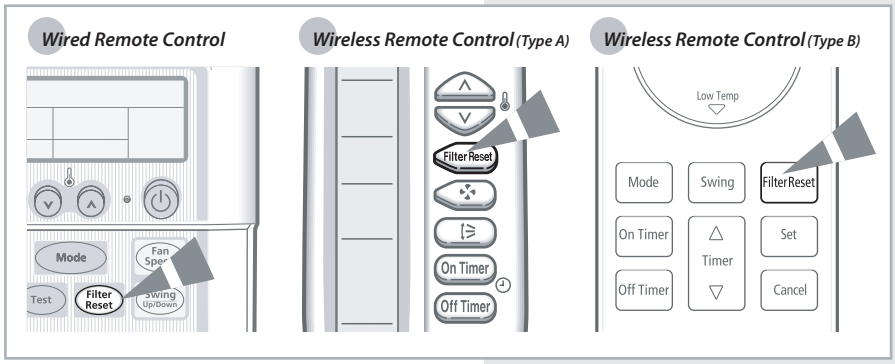
4 Close the front grille by pushing both sides and center.





Note

- If you have not used the air conditioner for a long period of time, set the fan going for three or four hours to dry the inside of the air conditioner thoroughly.
- If you don't clean the air filter at least every two weeks, its performance may be reduced and noise may increase.
- After cleaning the air conditioner, press the Filter Reset button.



Solving Common Problems

Before contacting the after-sales service, perform the following simple checks. They may save your time and expense of an unnecessary call.

Problem	Explanation/Solution
The air conditioner does not operate at all	◆ Check that the breaker used for the air conditioner is switched on.
Wired Remote Controller The air conditioner does not operate with the remote controller	◆ TEST is displayed on the wired remote controller. In this case, turn the air conditioner off and contact your dealer.
Wired Remote Controller When turning on/off the air conditioner, it is not turned on/off immediately.	◆ In case of using the wired remote controller for a group, the air conditioners connected to the remote controller are turned on/off in order. Thus, it takes some time(up to 32 seconds).
Wireless Remote Controller The air conditioner does not operate with the remote controller	◆ Check that there are no obstacles between you and the remote control sensor. ◆ Check the wireless remote controller batteries. ◆ Check that you are close enough to the remote control sensor. (7 metres/yards or less).
Wireless Remote Controller No beep is heard when you press (On/Off) on the remote controller	◆ Check that you are pointing the remote controller at the remote control sensor on the indoor unit. ◆ Replace the remote controller batteries if necessary. ◆ If there is a strong light around the air conditioner, a three-wavelength light, a neon sign, etc., for example, the air conditioner may not be operated with a remote controller. If this happens, use the remote controller close by the remote control sensor.
The air conditioner does not cool or heat	◆ Check that the correct operating mode has been selected. ◆ The room temperature may be too low or too high. ◆ Dust may be blocking the air filter guard; refer to page 13 for cleaning instructions. ◆ Check that there is no obstacle in front of the outdoor unit.
When heating, the required room temperature is never reached and the air conditioner frequently stops	◆ Check that the required temperature has been set correctly. ◆ Increase the fan speed.

Memo

SAMSUNG

ELECTRONICS

QUESTIONS OR COMMENTS?

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